

Анохина, Е.В. [Anokhina, E.V.]

Criterion for the comparative evaluation of the washability of
knit fabrics. Tekh. proc. no.4:58-59 C-D '65.

(MIRA 19:1

ARSHINOV, A.

Stereophonic phonograph records will be in production by 1960.
Radio no.6:27 Je '60. (MIRA 13:7)
(Phonorecords)

S/107/61/000/012/005/006
D201/D302

AUTHOR: Arshinov, A., Engineer

TITLE:

PERIODICAL: Progress in the development of mechanical recording
Radio, no. 12, 36-37

TEXT:

This is a short survey of recording and record reproduction techniques. The most important factor in the electro-mechanical record reproduction system is the point of contact of the stylus with the groove which determines most of the non-linear distortions. The weight of the pick-up is determined by the compromise between the force required to hold the stylus inside the groove and the wear of the record. In a modern dynamic type recorder, the actual mass of the vibrator does not exceed 1.5 mg and the required pressure is of the order of 3 gr. This makes it possible to use sharper styli and to make the grooves narrower. Since a sharp stylus follows the groove more accurately, the linear and, therefore,

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D201/D302

Progress in the development of ...

angular velocity may be made smaller. There is a tendency to make recordings at $16 \frac{2}{3}$ r.p.m. Since the stylus is then very thin it is sensitive to all surface roughness and those recordings have, therefore, a large surface noise. This effect may be partly overcome by making the recording characteristic rising at its high frequency end. In reproduction the higher frequencies are attenuated, which results in a flat overall response and an average lowering of the noise level by 4-6 db. Recent developments and application of new electro-dynamic recorders with an electro mechanical feedback have shown that the high quality electro mechanical recording is better than the best of the magnetic tape recording systems. The following are the data of modern recording equipment. Recording frequency range 30 - 15,000 c/s ± 1.5 db. non-linear distortion at max. speed of deflection - less than 1%. Noise level relative to the maximum signal level - 52 db, the irregularity in the movement of recording stylus being not more than 0.05%. The surface noise level of modern recording discs is less than that of the magnetic

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Progress in the development of ...

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D201/D302

tape. The records are reproduced from a steel die. Records are made of pure vinylite resin which also reduces the noise level. The modern dynamic pick-ups have a frequency range of more than 20 kc/s and vertical pressure not more than 5 g. The drive mechanisms seem to be the most troublesome parts in electromechanical recording systems. They introduce low frequency interference and frequency modulation. They may be eliminated by complicated mechanical filters used only in professional systems. Further lowering of recording speeds would be practically possible only if the drive mechanisms are improved so that much work is carried out in this field. The advent of long-playing records resulted in the application of corundum or diamond styli. The average life of a corundum stylus is 100 hrs. The diamond styli have practically an unlimited life. Stereophonic reproduction proves that further progress in mechanical recording has been made. The basic problem which will have to be overcome is the problem of surface noise. There are 3 figures.

Card 3/3

ARSHINOV, A., inzh.; VOZNESENSKII, Yu., inzh.

Device for observing phase relationship in stereophonic
recording. Radio no. 4:51,54 Ap '63. (MIRA 16:1)
(Stereophonic sound systems)
(Magnetic recorders and recording)

ARSHINOV, A., insh.

Flexible plates. Radio no. 6136 Ja '65.

(MIRA 18:10)

ARSHINOV, A., insh.

Success in the development of mechanical recording. Radio no.12:
36-37 D '61. (MIRA 14:12)
(Recording instruments) (Sound--Recording and reproducible)

S/109/62/007/005/016/021
D230/D308

AUTHORS: Arshinov, A.A., and Musin, A.K.
TITLE: Equilibrium ionization in dispersion systems
PERIODICAL: Radiotekhnika i elektronika, v. 7, no. 5, 1962,
890 - 899

TEXT: A fundamental ionization equation is deduced; the only condition of its applicability is that the particles must be identical. Using a number of ionization expressions a law of charge distribution is obtained which is similar to the probability density distribution law. The results indicate that, in terms of the probability theory and for certain assumptions, the particle concentrations with various charges follow a normal Gaussian law. The physical meaning of the magnitude of dispersion and mean charge is explained. Asymptotic approximations of the fundamental equation are given for the cases of large and small dispersions; large and small dispersions indicate smooth and discrete charge distribution of particles, respectively; their properties are explained. It is shown that certain already existing formulas follow from the generalized equation.

Card 1/2

ARSHINOV, A.A. [deceased]; VOSTRIKOV, I.M.

Ionization of flames by the electrode method. Zhur. fis. khim.
35 no.2:269-275 P '61. (MIRA 16:7)

1. Institut goryuchikh iskopyemykh AN SSSR.

ARSHINOV, F. L.

"Measures for Decreasing Consumption of Electric Power at Sintering Factories."
Prom. Energet. No. 8., 1949.

CHERNYKH, V.P.; ARSHINOV, P.L.

Planning, installation and operation of a pneumatic dust
elimination system in the agglomeration plant of the Southern
Nickel Combine. TSvet.met. 28 no.2:16-23 Mr-Apr '55.

(MIRA 10:10)

(Ore dressing) (Pneumatic-tube transportation)
(Dust--Removal)

SOV / 137-58-7-14052

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 7, p9 (USSR)

AUTHOR: Arshinov, F.I.

TITLE: Intensifying the Sintering Process (Intensifikatsiya protsessa spevaniya)

PERIODICAL: Byul. tsvetn. metallurgii, 1957, Nr 23, pp 14-18

ABSTRACT: The essence of a new method of sintering lies in the fact that the layer of charge ignited over the first compartment is mixed, leveled out, and again ignited on an ordinary hearth. Descriptions are offered of the laboratory and industrial sintering experiments, and a drawing of the machine to mix the charge in the ignition chamber is presented.

1. Sintering 2. Sintering furnaces--Operation

A. Sh.

Card 1/1

KANAVETS, P.I.; GESS, B.A.; SPORIUS, A.E.; CHERNYSHEV, A.M.;
MELENT'YEV, P.N.; GHERNYKH, V.I.; KHEROMYAK, R.P.;
KHAYLOV, B.S.; BORISOV, Yu.I.; TSYLEV, L.M.; SOKOLOV, V.S.;
Prinimali uchastkiye: MARKIN, A.A.; GORLOV, M.Ya.;
VORONOV, Yu.G.; BULAKHOV, K.A.; KHEMYANSKIY, V.L.; ARSHINOV,
G.A.; MAZUN, A.S.; PISARNITSKIY, I.M.; BONDURAYA, O.A.;
KIRILLOV, M.V.; TSHLUTKO, P.I.; POLYAKOV, G.O.; REZKOV, A.S.;
ZHUCHKOV, M.I.; SEMASHNIN, A.S.; ZUBKOV, A.S.; KOSLOV, N.M.

Pilot plant for the nodulizing of finely ground charge mix-
tures by the method of chemical catalysis. Trudy IGI 22:
93-109 '63.
(MIRA 16:11)

KORSHIKOV, G.V., inzh.; KOROKOV, Yu.G., inzh.; TSEYTLIN, M.A., inzh.;
KIYASHKO, Yu.M., inzh.; GOROKHOV, A.S., inzh.; SERACHEV, M.A.,
inzh.; Prinimali uchastkiye: ARSHINOV, G.P.; GREGOR'YEV, Ye.I.;
KUVARIN, Yu.N.; RUJAKOV, N.V.; BUTEV, V.Ye.; TOGL'NITSYN,
A.N.

Investigating the oxidizing zone of a blast furnace working
under oxygen-enriched blowing (35% oxygen) and using natural
gas. Stal' 25 no.8:781-790 S '65. (MIRA 18:9)

ARSHINOV, I.A.

Nekal as a frothing agent for cellular concrete. Rats. i izobr.predl.
v stroi. no.137:20-21 '56. (MIRA 9:9)
(Concrete) (Nekals)

36632
S/081/62/000/009/049/075
B166/B144

21.2400
AUTHOR:

Arshinov, I. A.

TITLE:

The influence of chemical additions on the physico-mechanical properties of heavy concretes

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 9, 1962, 417, abstract
9K337 (Tr. N.-i. in-ta betona i shelenobetsa Akad. str-va
i arkhitekt. SSSR, no. 19, 1961, 155-168)

TEXT: The influence exerted on the physico-mechanical properties of concrete by chemical additives (lithium, boron and cadmium compounds) intended to enhance its shielding properties against neutron radiations is studied. The effect of these additions was investigated on magnetite concrete 1 : 9 and sand mortar 1 : 3; the binder used being portland cement, alumina, expanding or magnesia cements. Boron carbide proved to be the best of the additions tested and the addition of B₄C up to 30% of the weight of cement exerts no harmful influence on the strength of the concrete. Calcium diborate is less expensive, but to eliminate its

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ARSHINOV, I.A., inzh.

Cubic and prismatic strength of high density and hydrated concrete
at a temperature of 100°-300° Trudy NIIZHB no.29:37-51 '62.

(MIRA 15:11)

(Concrete--Testing) (Shielding (Radiation))

ACCESSION NR: AT4019069

S/0000/63/000/000/0327/0337

AUTHOR: Arshinov, I. A.

TITLE: The strength of specially mixed concretes at high temperatures (400-800C)

SOURCE: Voprosy* fiziki zashchity* reaktorov; sbornik statey (Problems in physics of reactor shielding; collection of articles). Moscow, Gosatomizdat, 1963, 327-337

TOPIC TAGS: nuclear reactor, reactor shielding, concrete shielding, concrete strength, concrete high temperature strength, specially mixed concrete, heat resistant concrete, concrete filler, chamotte concrete

ABSTRACT: Investigations of the physical and mechanical properties of heat-resistant concretes using special fillers which contain iron, carbon, hydrogen and boron are reported. For the purpose of the experiments, concretes were prepared from the following materials: chamotte, serpentine, hematite, powdered graphite and iron, and detolite ore. As binding materials, the following were used: portland cement, grade 500, from the Voskresenskiy Plant; aluminous cement from the Pashysk Plant; and liquid glass from the "Kleytuk" Plant with a modulus of 2.47 and density of 1.38, containing an admixture of sodium fluosilicate amounting to 10-12% of the weight of the liquid glass. The characteristics of the materials used in the experiments are shown in six tables. The concrete samples measured

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ACCESSION NR: AT4019069

10 x 10 x 10 cm. Vibration was on a standard laboratory vibration stand, with striking every two days. Before heating, the concrete was subjected to preliminary drying at 100-110C for 32 hours. During the heating process, the temperature was raised to 800C at the rate of 150C per hour, with the samples maintained at the given temperature for four hours. After heating, the samples were cooled together with the furnace. The samples were tested after 7 and 28 days of normal hardening. Compression strength tests were run 10 days after cooling, except in the case of the liquid-glass samples, which were tested immediately after cooling. The tests showed that after heating to 400C the cubic strength of the portland cement concrete either does not decrease or decreases negligibly (by 9%), regardless of the type of fillers and fine-ground admixture employed. After heating above 400C, the compression strength of the concrete decreases, the degree of reduction being a function of the filler employed. The strength of the combined concrete based on a mixture of powdered graphite with powdered iron and chamotte gravel, after heating at 600C, was 6-16% higher than the strength of the dried control samples. Further details regarding various combinations are given in the article. Particular attention is called to the data obtained for the concrete using boron-containing portland cement and boron-containing chamotte fillers. The strength of 28-day-old boron-containing concrete samples was 383 kg/cm² while that of the samples dried at 100C was 488 kg/cm²; that is, 26% higher. After heating at 800C the

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ACCESSION NR: AT4019069

strength of the boron-containing concrete fell off to 141 kg/cm^2 and was 29% of the strength of the dried control samples. The effect of fillers and binders on the relative strength of concretes of various formulas in the 400-800°C temperature interval are analyzed and the results are presented in the form of graphs, with special attention given to the effect of boron carbide on the strength factors. The author considers in detail the effect of temperature and age on the absolute and relative strength of chamotte concrete on a liquid glass base. The degree of dehydration of various concrete formulas as a function of the heating temperature is also studied in some detail, along with the effect of prolonged heating at a given temperature. Although a great deal of statistical data is given in the article regarding the behavior of various concrete filler and binder combinations within the range of the test conditions, the author makes no specific recommendations concerning the use of a particular formula for biological radiation shielding purposes. Orig. art. has: 16 figures and 6 tables.

ASSOCIATION: none

SUBMITTED: 14Aug63

DATE ACQ: 27Feb64

ENCL: 00

SUB CODE: NP, MT

NO REF SOV: 000

OTHER: 000

Card 3/3

ACCESSION NR: AT4019070

8/0000/03/000/000/0337/0344

AUTHOR: Arshinov, I. A.

TITLE: Physical and mechanical properties of concrete with serpentine fillers

SOURCE: Voprosy* fiziki zashchity* reaktorov; sbornik statey (Problems in physics of reactor shielding; collection of articles). Moscow, Gosatomizdat, 1963, 337-344

TOPIC TAGS: serpentine concrete, concrete strength, concrete dehydration, thermal conductivity, linear deformation, concrete shielding, reactor shielding, expansion coefficient, concrete, serpentine, serpentine filler

ABSTRACT: The author investigated the properties of concrete with serpentine fillers in order to estimate its usefulness as a reactor shielding. The outstanding property of serpentine is its ability to retain its chemically bound water at high temperatures. In these studies, the author used serpentine from the Urals (Asbest) with a strength of 400-625 kg/cm², a density of 5.1-5.3 g/cc and 11.7% chemically bound water. Serpentine concrete was made with different types of cement investigated for its physical and mechanical properties. Data on the compressive strength of different 28-day-old serpentine concretes

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(composition 1:9) at 100-800 C as well as cubic and prismatic strength and degree of dehydration are tabulated and shown in graph form. The relative coefficient of linear deformation as a function of temperature is given in Fig. 1 of the Enclosure for different types of serpentine concrete. Serpentine concrete was found to have smaller values of the expansion coefficient and relative linear deformation than other types of concrete. The thermal conductivity of serpentine concrete at temperatures of 140, 200 and 340C was found to be 0.88, 0.84 and 0.66 kcal./m.hr. deg., respectively. It is concluded that serpentine concrete can be used as a nuclear reactor shielding up to 600C. Orig. art. has: 5 figures and 5 tables.

ASSOCIATION: none

SUBMITTED: 14Aug63

SUB CODE: MT, NP

NO REF SOV: 001

ENCL: 01

OTHER: 001

Card 2/3

ACCESSION NR: AT4019070

Enclosure 01

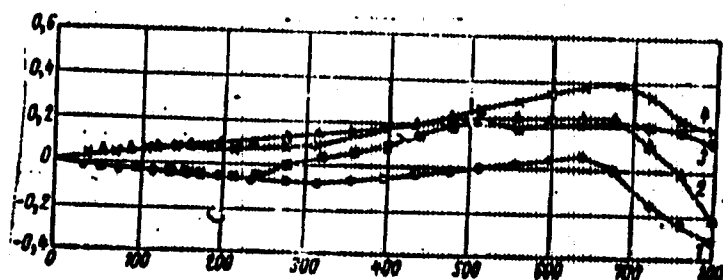


Fig. 1. Relative linear deformation of serpentine concrete based on different cements: 1 - expanding; 2 - portland; 3 - magnesia; 4 - aluminous. Ordinate - % linear deformation; abscissa - temperature in °C.

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L 00267-66 EFF(c)/EFF(n)-2/ENT(n)/ENG(m) WM

ACCESSION NR: AP5018154

UN/0097/65/000/00/0015/0019
624.012

AUTHORS: Arshinov, I. A. (Candidate of technical sciences); Dubrovskiy, V. B. (Candidate of technical sciences); Pospelov, V. P. (Engineer)

TITLE: The effect of heating time on the physicochemical and protective properties of concretes

SOURCE: Beton i zhelezobeton, no. 7, 1965, 15-19

TOPIC TAGS: radiation protection, radiation shielding, concrete, protective screen, protective construction

ABSTRACT: Four types of concretes were investigated to determine the type most proper for nuclear reactor shielding. The concrete mixes were composed of local filler materials and portland cement No. 500 from the factory Gigant. A quantitative analysis of the composition constituents of each mix is given. Tests were performed to determine the following: 1) the variation of strength and temperature deformation of portland cement rock without fine filler under heat up to 8000; 2) the curves of temperature deformations of the constituents: cement stone, sandstone, refractory clay, and serpentinite; 3) the effect of duration of temperature on the compressive strength limit; 4) the same effect upon tensile strength; 5) the same effect upon

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L 00267-66

ACCESSION NR: P5018154

the modulus of elasto-plasticity; and 6) the same effect upon water content and the general quantity of water at the moment of cement seal. Data are also presented (see Table 1 on the Enclosure) showing the protection capabilities of the concrete as a function of duration of exposure to selected temperatures. The corresponding concrete constituents are given in Table 2 on the Enclosure. The authors conclude that all concrete tested may be used at temperatures of 500C, concrete 2 and 4 may be used at temperatures up to 500C, and concrete 3 up to 800C. Other conclusions are related to the time durability of the mixes. Orig. art. has: 6 figures and 3 tables.

ASSOCIATION: none

SUBMITTED: 00

NO REF SOV: 004

ENCL: 03

SUB CODE: FR, RT

OTHER: 000

Card 2/5

L 00267-46

ACCESSION NR: AP5018154

Table 1

Mix number	Time of heating in hours	30°			100°		
		$\frac{1}{\rho}$	$\frac{1}{\rho}$	$\frac{1}{\rho}$	$\frac{1}{\rho}$	$\frac{1}{\rho}$	$\frac{1}{\rho}$
1	4	8.58	8.40	72	8.45	8.18	55
	1000 3000	— —	— —	— —	— —	— —	— —
2	4	7.98	8.30	95	7.48	7.10	88
	1000 3000	— —	— —	— —	— —	— —	— —
3	4	7.30	7.30	105	8.28	8.18	82
	1000 3000	— —	— —	— —	— —	— —	— —
4	4	8.38	10.1	144	7.98	8.0	113
	1000 3000	— —	— —	— —	— —	— —	— —

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L 00267-56

ACCESSION NR: AP5018154

ENCLOSURE 02

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300°			300°			300°		
μ	Σ_{rem}	Σ_s	μ	Σ_{rem}	Σ_s	μ	Σ_{rem}	Σ_s
8.32	7.75	57	8.31	7.70	55	---	---	---
8.28	7.62	53	8.15	7.34	44	---	---	---
8.27	7.55	52	8.07	7.10	39	---	---	---
7.30	6.50	54	7.27	6.40	54	7.07	5.75	35
7.24	6.25	50	7.07	6.25	40	7.01	5.71	35
7.18	6.20	46	7.00	6.70	35	6.97	5.69	33
6.25	4.67	47	6.21	4.82	44	6.01	4.35	35
6.25	4.85	46	6.02	4.35	34	5.95	4.13	35
6.12	4.55	39	5.98	4.39	31	5.94	4.13	35
7.67	8.30	54	7.58	8.10	55	6.70	5.30	35
7.67	8.30	54	6.78	6.00	32	6.65	5.70	35
7.60	8.10	53	6.71	5.90	29	6.59	5.50	35

Table 1. Coefficients of gamma quanta (μ) linear weakening, of sections of fast neutron removal (Σ_{rem}), and of sections of heat neutrons (Σ_s) scatter in concretes, in relation to temperature and time of heating.

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L 00267-66

ACCESSION NR: AP5018154

ENCLOSURE: 03

Table 2

Mix No.	Chemical element content in g/cm ³ of concrete							
	Si	Sn	Ca	Mg	Fe	Al	S	C
1	0.017	0.882	0.184	0.008	0.046	0.031	0.02	1.121
2	0.029	0.847	0.17	0.007	0.038	0.183	0.004	1.081
3	0.038	0.808	0.128	0.808	0.016	0.238	0.991	1.016
4	0.051	0.842	0.144	0.383	0.087	0.048	0.609	1.114

Table 2. Chemical content of the
investigated concretes

Card

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3/5

KHANHALIM, Nikolay Samsonovich; ARSHINOV, I.M., inzhener, redaktor; VERINA,
G.P., tekhnicheskiy redaktor

[Manual for railroad car inspectors and train masters] Spravochnik
osmotreshchiku vagonov i poezdnomu vagonnomu masteru. Moskva, Gos.
transp. . shel-dor.isd-vo, 1955. 287 p. (MIRA 9:3)
(Railroads--Cars)

YAGOROV, Vladimir Aleksandrovich: ARSHINOV, I.M., redaktor: KANDYKIN, A.Ye.,
tekhnicheskyy redaktor

[Manual for railroad car inspectors] Pamiatka snimotreshchikam vagonov.
Izd. 4-oe. Moskva, Gos. transp. shkol-dor., izd-vo, 1956, 61 p.
(Railroads--Cold weather operation) (NARA 9:12)

ALFEROV, A.A.; ARTEMKIN, A.A.; ASHKENAZI, Ye.A.; VINOGRADOV, G.P.; GAIKHEV,
A.U.; ORIOOR'YEV, A.N.; D'YACHENKO, P.Ye.; ZALIT, N.Y.; ZAKHAROV,
P.M.; ZOBININ, N.P.; IVANOV, I.I.; IL'IN, I.P.; KMETIK, P.I.; KUDRYA-
SHOV, A.T.; LAPSHIN, P.A.; MOLYARCHUK, V.S.; FARTSOVSKIY, L.M.;
POGODIN, A.M.; RUDOV, M.L.; SAVIN, K.D.; SIMONOV, K.S.; SITKOVSKIY,
I.P.; SITHIK, M.D.; TETREEV, B.K.; TSETYKIN, I.Ye.; TSUKANOV, P.P.;
SHADIKYAN, V.S.; ADRIUNG, N.N., retsensent; APANAS'YEV, Ye.V., retsen-
sent; VASOV, V.I., retsensent; VOROB'YEV, I.Ye., retsensent; VORO-
NOV, N.M., retsensent; GRITCHENKO, V.A., retsensent; ZHUKHIBIN, M.M.,
retsensent; IVLIYEV, I.V., retsensent; KAPORTSEV, N.V., retsensent;
KOCHUROV, P.M., retsensent; KRIVORUCHKO, N.Z., retsensent; KUCHKO,
A.P., retsensent; LORANOV, V.V., retsensent; MOROZOV, A.S., retsen-
sent; ORLOV, S.P., retsensent; PAVLUSHKOV, E.D., retsensent; POPOV,
A.N., retsensent; PRONOV'YEV, P.P., retsensent; RAKOV, V.A., retsen-
sent; SINEGUBOV, N.I., retsensent; TRENIN, D.P., retsensent; TIKHO-
MIROV, I.G., retsensent; URRAN, I.V., retsensent; PLALKOVSKIY, I.A.,
retsensent; CHEPYZHEV, B.P., retsensent; SHEBYAKIN, O.S., retsensent,
SHCHERRAKOV, P.D., retsensent; GARNYK, V.A., redaktor; IMAGIN, N.A.,
redaktor; MORDVINKIN, N.A., redaktor; NAUMOV, A.N., redaktor; POHN-
DIN, V.F., redaktor; RYAZANTSEV, B.S., redaktor; TVERSKOI, K.N.,
redaktor; CHEREVATYI, N.S., redaktor; ARSHINOV, I.M., redaktor;
BARILYAN, V.B., redaktor; BERNGARD, K.A., redaktor; VIKHRETSKIY, S.V.,
redaktor; GAMBURG, Ye.Yu., redaktor; DMRIBAS, A.F., redaktor;
DOMEROVSKIY, K.I., redaktor; KORNEYEV, A.I., redaktor; MIKHAYEV, A.P.,
redaktor

(Continued on next card)

ALFEROV, A.A. ---- (continued) Card 2.

MOSKVIN, G.M., redaktor; RUBINSHTYN, S.A., redaktor; TSYPIN, G.B., redaktor; CHERNYAVSKIY, V.Ya., redaktor; CHERNYSHEV, V.I., redaktor; CHERNYSHEV, M.A., redaktor; SHADUR, L.A., redaktor; SHISHKIN, K.A., redaktor

[Railroad handbook] Spravochnaya knizhka zheleznodorozhnika, Izd. 3-e, ispr. i dop. Pod obshchei red. V.A.Garayka. Moskva, Gos. transp.zhel-dor. izd-vo, 1956. 1103 p. (MIRA 9:10)

1. Nauchno-tekhnicheskoye obshchestvo zheleznodorozhnogo transporta. (Railroads)

ARSHINOV, I.M.

Annual repair of railroad cars by combined work teams. Shel. dor.
transp. 38 no.9:28-32 8 '56. (MLRA 9:10)

1. Zamestitel' nachal'nika Glavnogo upravleniya vagonnogo
khozaystva Ministerstva putey soobshcheniya.
(Railroads--Cars--Maintenance and repair)

SARANCHA, Georgiy Arkhipovich; ARSHINOV, I.M., inzhener, redaktor;
BOBROVA, Ye.N., tekhnicheskiiy redaktor.

[Organisation, inspection and repair of narrow-gage railroad cars]
Ustroistvo osmotr i remont vagonov uskoi kolai. Moskva, Gos.
transp.shel-dor.i-vo . 1957. 298 p. (MIRA 10:6)
(Railroads, Narrow-gauge---Cars---Maintenance and repair)

KHAKHALIN, Nikolay Samsonovich; ARSHINOV, I.M., inzhener, redaktor;
VERINA, G.P., tekhnicheskiy redaktor.

[Manual for railroad car inspectors and train masters]
Spravochnik osmotreshchikov vagonov i poezdnoy vagonnoy masters.
Izd.2-oe, ispr.1 dop. Moskva, Gos.transp.shel-dor.izd-vo, 1957.
351 p. (MIRA 10:11)

(Railroads--Cars)

YEGOROV, Vladimir Aleksandrovich.; ARSHINOV, I.M., red.; KHITROV, P.A., tekhn. red.

[Booklet for car inspectors] Pamiatka osmotrichobika vagonov. Izd.
5. Moskva, Gos. transp. shel-dor. izd-vo, 1958. 60 p. (MIRA 11:12)
(Railroads--Cars)

KOMAROV, S.G.; SAMOKHVALOV, S.F.; BELAVENETS, N.V.; BOMBARDIROV, P.P.;
AMELINA, A.A.; BLIZNYUK, V.F.; LADYGIN, V.I.; PEROV, A.B.; VASIL'YEV,
I.P.; BRODOVICH, N.B.; RABINOV, A.M.; ALEKSEYEV, V.D.; YEGOROV,
V.A., insh., red.; ARSHINOV, I.M., insh., red.; VIERINA, G.P., tekhn. red.

[Handbook on the repair of freight cars] Spravochnik po remontu
gruzovykh vagonov. Moskva, Gos. transp. zhel-dor. ind-vo, 1958. 503 p.
(MIRA 11:12)

(Railroads--Freight cars--Maintenance and repair)

KHAKHALIN, Nikolsy Samsonovich; ARSHINOV, I.M., inzh., red.; VERINA,
G.P., tekhn.red.

[Handbook for the railroad car inspector and train car repairman]
Spravochnik osmotreshchiku vagonov i poezdnomu vagonnomu mestern.
Izd.3., ispr. i dop. Moskva, Gos.transp.zhel-dor.ind-vo, 1959,
359 p. (MIRA 12:12)
(Railroads--Cars--Maintenance and repair)

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KHITROV, P.A., tekhn.red.

[Manual for foremen and brigade leaders on the repair of rail-
road cars] *Rukovodstvo masteru i brigadiru po remontu vagonov.*
Iss. 2., perer. i dop. Moskva, Gos.transp.shel-dor.izd-vo, 1959,
521 p. (MIRA 12:5)
(Railroads--Cars--Maintenance and repair)

KHAKHALIN, Nikolay Samsonovich; ARSHINOV, I.M., inzh., red.; VERINA, G.P.,
tekhn.red.

[Manual for car inspectors] Spravochnik osmotreshchiku vagonov.
Isd.3., ispr. 1 dop. Moskva, Vses.isdatel'sko-poligr.ob"edinenie
M-va putei soobshcheniia, 1960, 359 p. (MIRA 13:10)
(Railroads--Cars--Maintenance and repair)

BEZTSENNYY, Viktor Ivanovich, inzh.; PETROV, Vasil'y Afanas'yevich, kand. tekhn. nauk; SAKHAROV, Mikhail Borisovich, inzh.; TUROVTSKY, Vasil'y Ivanovich, kand. tekhn. nauk. Prinimal uchastiye CHERNYSHOV, P.N., inzh.; KHUDOKORNOV, V.I., inzh., retsenzent; EVIN, G.D., inzh., retsenzent; DERGACH, Ye.S., inzh., retsenzent; GROKHOL'SKIY, N.F., kand. tekhn. nauk, retsenzent; NIKOLAYEV, K.I., kand. tekhn. nauk, retsenzent; SMARAGDOV, G.I., kand. tekhn. nauk, retsenzent; ZOLOTNIKOV, I.M., kand. tekhn. nauk, retsenzent; VISHNYAKOV, B.I., aspirant, retsenzent; ARSHINOV, I.M., inzh., red.; MEDVEDEVA, M.A., tekhn. red.

[Car repairing at factories] Remont vagonov na zavodakh. By V.I. Beztsennyy i dr. Moskva, Vses.izdatel'sko-poligr. ob'edinenie M-va puti soobshcheniya, 1961. 363 p. (MIRA 14:12)

1. Kafedra "Vagony i vagonnoye khozyaystvo" Leningradskogo instituta inzhenerov zheleznodorozhnogo transporta (for Grokhol'skiy, Nikolayev, SmaragdoV, Zolotnikov)
(Railroads—Cars—Maintenance and repair)

ARSHINOV, I.M.

Norm setting and justification of the procurement plan. Zhel.dor.
transp. 46 no.9:31-35 S 1964. (MIFA 17:10)

1. Glavnyy inzh. Glavnogo upravleniya material'no-tekhnicheskogo
obespecheniya Ministerstva puty soobshcheniya.

KREVOY, Aleksandr L'vovich; DEBERDEYEV, Sadyk Abdulayevich;
ARSHINOV, I.M., inzh., red.; VOROTNIKOVA, L.F., tekhn.
red.

[Preparing tanks for filling; practice of the Baladzhar
washing and steaming station of the Azerbaijan Railroad]
Podgotovka tsistern k nalivu, opyt promyvochno-proparochnoi
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kommunisticheskogo truda. Moskva, Transzheldorizdat, 1962.
55 p. (MIRA 15:7)
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FRANTSEV, Andrey Nikolayevich; POPOV, A.I., insh., retsentsent;
ARSHINOV, I.M., insh., red.; VOROTNIKOVA, L.F., tekhn. red.

[Economy of materials and parts in car repairing] Ekonomika
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sheldorisdat, 1963. 138 p. (MIRA 16:4)
(Railroads--Cars--Maintenance and repair)

NESTEROVICH, V.P.; NOSENKO, Yu.I.; ZYUZIN, I.I., inzh., retsenzent;
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[Repair of six-axle gondola cars] Remont shestiosnykh poluvagonov; opyt vagonnogo depo st. Volnovakha Donetskoi dorogi. Moskva, Transzheldorizdat, 1963. 82 p.
(MIRA 17:2)

ARSHINOV, I.M.

Use of polymers is an important factor in the acceleration of the technological progress. Zhel.-dor.transp. 45 no.12:3-6 D '63.

(MIRA 17(2))

1. Glavnyy inzh. Glavnogo upravleniya material'no-tekhnicheskogo obshchepcheniya Ministerstva putey soobshcheniya.

ARSHINOV, I.S., inzh.

Exhaust ventilation shaft with axial-flow fans. Mashinostroenie
no.6:69-70 M-D '63. (MIRA 16:12)

1. Institut "Ukrgiprostanok".

ALIMINOV, A. A. Ascorbic acid content of human milk in the early puerperium Hygiene and Sanitation 1948, 12 (32-35)
Determinations of ascorbic acid content were made among 66 primi- and multi-parae aged 17-40 in Kirghisia (Central Asia). The average ascorbic acid content was 3.4 mg. per 100 ml., the range during the period April-October being 0.34-9.24 mg. per 100 ml. A tendency towards a reduced ascorbic acid content was noted in the first five days of the puerperium. The primiparae had a higher ascorbic acid content than did the multiparae; this phenomenon may be due to the greater age of multiparae who were shown to have a relatively lower ascorbic acid content than did the younger women. Pasteurization reduced ascorbic acid content from 3.22 to 2.58 mg. per 100 ml.

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SO: Medical Microbiology and Hygiene, Section IV, Vol 3, No 1-6

ABSHINOV, K.A.

Effect of thermal treatment of milk on denaturation of proteins.
Gig. sanit., Moskva no.6:35-38 June 1952. (GIML 23:2)

1. Of the Department of General Hygiene, Kirgis Medical Institute.

-ARSHINOV, L.

Vibratory grinder and mixer is the best machine in the manufacture of paints. Vest.prom.i khud.promys. 1 no.2/3:40 E-D '60.
(MIRA 14:4)

1. Nachal'nik khimicheskogo teakha predpriyatiya "Khimik", Gremnyy.
(Paint industry---Equipment and supplies)

KONDRASHOV, V.; ARSHINOV, L., kapitan; ISAY, V., prepodavatel'

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Reviewed by V. Kondrashov, L. Arshinov, V. Isai. Mor.flot 22
no.1:47 Ja '62.
(MIRA 15:1)

1. Uchenyy sekretar' Dagestanskogo filiala AN SSSR (for Kondrashov).
2. Makhachkalinskiy port (for Arshinov). 3. Dagestanskiy gosudarstvennyy universitet imeni V.I. Lenina (for Isay).
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(Omarov, O.IU.)

ARSHINOV, S. S.

RELEASED

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see ILC

BEFIN, B.M.; ARSHINOV, S.S., red.; BELDUS, B.P., red.; BABOCHKIN,
S.N., tekhn. red.

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izdat, 1951. 440 p. (MIRA 16:7)
(Radio—Transmitters and transmission)

ARSHINOV, V.A., kand.tekhn.nauk; ALEKSEYEV, O.A., inzh.; MOROZOVA, M.N.,
inzh., red.; SOKOLOVA, T.F., tekhn.red.

[Cutting of metals] Rezanie metallov. Ind.3., perer. Moskva,
Gos.nauchno-tekhn.isd-vo mashinostroit.lit-ry, 1959. 490 p.
(MIRA 14:2)

(Metal cutting)

ARSHINOV, V.A., kand. tekhn. nauk; ALEKSEYEV, G.A., inzh.; YEGOROV,
S.V., kand. tekhn. nauk, dots., retsenzent; MALINOVSKIY,
V.R., inzh., retsenzent; YULIKOV, M.I., kand. tekhn.nauk,
red.

[Metal cutting and metal-cutting tools] Rezanie metallov i
rezhushchii instrument. Moskva, Izd-vo "Mashinostroyeniye,"
1964. 543 p. (MIRA 17:7)

V.A. ARSEINOV, ALEKSEEV, G.A. and E.A. SMOL'NIKOV

Raschet i konstruirovaniye reshushchego instrumenta. Dop.v kachestve
uchebn. posobiya dlia mashinostroit. tekhnikumov. Moskva, Mashgiz,
1951. 602 p. illus.

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DEC: TJ1230.A47

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library
of Congress, 1953.

ARISHINOV, V.A., kandidat tekhnicheskikh nauk; ALEKSEYEV, O.A., inzhener,
laureat Stalinskoy premii.

[Metal cutting] Resanie metallov. Moskva, Gos. nauchno-tekhn. issled-vo
mashinostroit. i sudostroit. lit-ry, 1953. 507 p. (MIRA 7:5)
(Metal cutting)

BRYUKHANOV, A.N.; LAKHTIN, Yu.M.; MALYSHEV, A.I.; NIKOLAYEV, G.N.; SHUVALOV, Yu.A.; SHISHKOV, P.P., dotsent, kand.tekhn.nauk, retsentsent; ~~ARSHINOV, I.A., kand.tekhn.nauk, retsentsent; LOSEV, I.S., inzh., retsentsent;~~
YEGOROV, A.N., prof., red.; VYIRIN, P.O., inzh., red.; SOKOLOVA, T.F., tekhn.red.

[Technology of metals] Tekhnologiya metallov, Moskva, Gos.nauchno-tekhn.isd-vo mashinostroit.lit-ry, 1954. 624 p.

(Metals)

(Metalwork)

(MIRA 13:12)

BAREASHOV, Fedor Alekseyevich, dots., kand.tekhn.nauk; BRUSHNIN, B.Ye.,
kand.tekhn.nauk, retsentsent; ARSHINOV, V.A., kand.tekhn.nauk,
red.; ML'KIND, V.D., tekhn.red.

[Strength and force relations in the cutting of metals] Stoikostnye
i silovye zavisimosti pri rezanii metallov. Moskva, Oon. nauchno-
tekhn. iss-vo mashinostroit. lit-ry, 1958. 43 p. (MIRA 11:5)
(Metal cutting)

MASHIVICH, Zel'man Abramovich, inzh.; ARSHINOV, V.A., kand.tekhn.nauk,
retsensent; BRUSHETYN, B.Ye., kand.tekhn.nauk, red.; SHIMSHURINA,
Ye.A., red.isd-va; MODER, B.I., tekhn.red.; KL'KIND, V.D., tekhn.
red.

[Laboratory work in the course "Principles of metal cutting and
cutting tools"] Laboratornye raboty po kursu "Osnovy ushania o
rezanii metallov i reshushcii instrument." Moskva, Gos. nauchno-tekhn.
isd-vo mashinostroit. lit-ry, 1958. 247 p. (MIRA 11:5)
(Metal cutting)

KRIVOUKHOV, Vasilii Aleksandrovich,; BRUSHTYIN, Boris Yefimovich,; YEGOROV, Sergey Vasil'yevich,; CHIRVYAKOV, Arkadiy Grigor'yevich,; CHIRKOV, Nikolay Alekseyevich,; MYAKISHEV, Mikhail Antonovich,; BOVIN, Vladimir Georgiyevich,; PETRUKHA, Petr Grigor'yevich,; BESPAKHOTNYI, Petr Dmitriyevich,; KLUSHIN, M.I., kand. tekhn. nauk, dots., retsment,; ARSHINOV, V.A., kand. tekhn. nauk, dots., red.,; SUVOROVA, I.A., izd. red.,; ROZHIN, V.P., tekhn. red.

[Metal cutting] Obrabotka metallov rezaniem. Moskva, Gos. izd-vo obor. promyshl., 1958. 627 p. (MIRA 11:12)
(Metal cutting)

9(2)

06445
SOV/107-59-5-40/51

AUTHOR: Arshinov, V.

TITLE: Manufacturing Coils of Type "Universal"

PERIODICAL: Radio, 1959, Nr 5, p 50 (USSR)

ABSTRACT: The author describes in detail the manufacture of "Universal" type coils under amateur conditions using a KBGI capacitor as a frame. A note from the editor says that coils manufactured by this method are not much different from factory-made coils. There are 2 diagrams.

Card 1/1

PHASE I BOOK EXPLOITATION

SOV/5235

Arshincev, V. A., Candidate of Technical Sciences, and G. A. Alekseyev, Engineer

Rezaniye metallov (The Cutting of Metals) 3rd rev. ed. Moscow, Mashgiz, 1959. 490 p. 70,000 copies printed.

Ed.: M. N. Morozova, Engineer; Tech. Ed.: T. P. Sokolova; Managing Ed. for Literature on Metalworking and Machine-Tool Making: N. D. Beyzel'man, Engineer.

PURPOSE: This book is intended for use as a textbook at tool, machine-tool, and machine-building tekhnikums.

COVERAGE: The authors discuss the basic problems considered in the course "Metal Cutting." For each method of machining metals by cutting, the following are examined: the geometry of the cutting portion of the tool, the geometry of the layer of removed metal, chip formation, the forces acting in the cutting process, and the wear and service life of the cutting tool. Methods of determining

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The Cutting of Metals

SOV/5235

the parameters of the cutting regime are also discussed. V. A. Arshinov wrote chapters I to XIV and XVIII; G. A. Alekseyev-- Chapters XV to XVII. No personalities are mentioned. There are 221 references, all Soviet.

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1. Basic considerations	3
2. Tool angles	12
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1. Cutting speed, feed and depth of cutting	29
2. Thickness, width, and area of the cross section of the cut.	32

Card 2/12

NEFEEDOV, N.A., inzh.; OSIPOV, K.A., inzh.; ARSHINOV, V.A., kand. tekhn
nauk, dots., retsenzent; EPSHTEYN, A.Yu., inzh., retsenzent;
KUNIN, P.A., inzh., red.; SOKOLOVA, T.P., tekhn. red.

[Problems and examples of metal cutting and metal-cutting tools]
Sbornik zadach i primerov po rezaniiu metallov i rezhushchemu
instrumentu. Moskva, Mashgiz, 1962. 224 p. (MIRA 15:11)
(Metal cutting) (Metal-cutting tools)

AUTHOR: Arshinov, V.D.

SOV/113-58-4-6/21

TITLE: The Modernization of the Lubrication System of the YaAZ-204 and YaAZ-206 Engines (Modernizatsiya sistemy smazki dvigatelya YaAZ-204 i YaAZ-206)

PERIODICAL: Avtomobil'naya promyshlennost', 1958, Nr 4, pp 18-20 (USSR)

ABSTRACT: The steady operation of the lubrication system of the YaAZ-204 and YaAZ-206 engines is highly important for the service life of the friction parts and for cooling of the piston crown and walls. The life of these engines depends essentially on that of the parts of the piston group. The pressure of the oil in the lubrication system exerts an essential influence on the life of the parts of the piston group. At first the oil pressure is very high in the YaAZ-204 and YaAZ-206 mass-produced engines. Together with the wear of the bearings and other parts this pressure is reduced and falls rapidly when the number of revolutions of the crankshaft decreases. If the coarse mesh filter is clogged, the oil pressure also drops. In addition to this, the efficiency of the oil pump of the engines is comparatively low. The modernized YaAZ-204 engine's principal lubrication system

Card 1/2

SOV/113-58-4-6/21
The Modernization of the Lubrication System of the YaAZ-204 and YaAZ-206 Engines

(Figure 1) is discussed and graphically interpreted (Figures 2 and 3). Mass-produced and modernized fuel pump drives (Figure 4) are described and explained. Experiments showed that in the former models an insufficient amount of lubricant was carried to the radial working clearances between the shaft and the gear bushing. This defect has been removed in the new YaAZ-M204 and YaAZ-M206 engines.

ASSOCIATION: Yaroslavskiy avtozavod (The Yaroslavl' Automobile Plant)

1. Internal combustion engines--Lubrication
2. Oil pumps
- Performance
3. Oil filters--Effectiveness

Card 2/2

SHATENSHTEYN, A.I.; YAKUSHIN, F.S.; ARSHINOVA, M.I.; YAKOVLEVA, Ye.A.

Kinetic isotope effect in deuterium and tritium exchange between hydrocarbons and bases. Kin. i kat. 5 no.6:1000-1007 N-D '64.

(MIRA 18:3)

1. Fiziko-khimicheskiy institut imeni Karpova, Moskva.

PROTOPPOV, S.P.; ARSHINOVA, M.N.

Basic problems in the scientific research activity of the A.V. Vishnevskii Institute of Surgery of the Academy of Medical Sciences of the U.S.S.R. Vest.AKH SSSR no.4:17-25 '53. (NERA 7:1)
(Surgery)

ARSHINOVA, M.N.; KRAKOVSKIY, N.I.

5th scientific session of the Vishnevskii Surgical Institute of
the Academy of Medical Sciences of the U.S.S.R. Khirurgiia no.10:
79-83 0 '54.

(MLRA 8:1)

(SURGERY--SOCIENTIES)

APSHINOVA, M. N.

APSHINOVA, M. N.- "Treatment of Gonitis Tuberculosis According to the Method of A. V. Vishnevskiy." Sub 29 Oct 52, Acad Med Sci USSR. (Dissertation for the Degree of Candidate in Medical Sciences).

SO: Vechernaya Moskva January-December 1952

ARZHIKIN, M. S.

"Ceramic condensers of small reactive power" (Keramicheeskie kondensatori maloi reaktivnoi motchnosti), published by the State Energetic Publishing House, MOSCOW 1953.

SO: D-68355, 13 July 1954.

FD-423

Card 1/1 Pub. 50 - 14/20

Author : Arshteyn, M. R.

Title : Automatic Control of Pre-Set Cyclic Heat Processes in Vulcanization Kettles

Periodical : Khim. prom. No 5, 298-300, Jul-Aug 1955

Abstract : Details are described of the automatic regulation of steam pressure to maintain the correct vulcanization cycle in the production of rubber-coated rollers at the "Kauchuk" plant.

Subject : UESR/Electricity AID P - 3077
Card 1/1 Pub. 29 - 11/29
Author : Arshteyn, M. R., Eng.
Title : Regulation of steam pressure in condensate collectors
Periodical : Energetik, 7, 17, J1 1955
Abstract : The author describes the functioning of a pneumatic pressure regulator of the OK-MB-410 type, produced by the plant "Tisprigor". One diagram.
Institution : None
Submitted : No date

ARSHTEYN, P. I.

Duties of nurses in the early detection of tuberculosis in institutions for children and in schools. Med. nestra, Moskva no. 10:21-25 Oct. 1951 (CML 21:3)

1. The author is a nurse belonging to the Children's Division (Head -- Prof. A. I. Kudryavtseva) of the Dispensary Sector of the Institute for Tuberculosis of the Academy of Medical Sciences USSR (Director -- Z. A. Lebedeva).

"Fundamental principles of the new economic provisions of the Decree
on Organization, Operation, and Management of Yugoslav Railroads.
p. 185, (ZELEZNICE, Vol. 10, No. 5, Jan. 1954, Beograd, Yugoslavia)

SO: Monthly List of East European Accessions, (EEAL, Vol. 3
No. 12, Dec. 1954, Uncl.

ARSIC, T.

Foreign-exchange income of Yugoslav railroads. p. 9

ZELEZNICE, Beograd, Vol 12, No. 2, Feb., 1956

SO: EREAL, Vol 5, No. 7, July, 1956

ARSHINOVA, Militsa Nikolayevna, kand.med.nauk; KRYMSKIY, Leonard Davydovich,
kand.med.nauk; BELYUKOV, O.M., redaktor; QUBIN, M.I., tekhn.red.

[Vascular surgery] Khirurgiya sosudov. Moskva, Izd-vo "Znanie,"
1957. 31 p. (Vesseloynyye obshchestvo po rasprostraneniya politiche-
skikh i nauchnykh znaniy. Ser. 8, no.41) (MKRA 11:2)
(CARDIOVASCULAR SYSTEM--SURGERY)

METABOLISM

"The Study of the Metabolism of Vitamin B₂ (Riboflavin) in Prolonged Wound-Healing Processes," by Ye.M. Maslenikova, M.N. Arshinova and L.G. Gvozdeva, Laboratory for the Study of Vitamins (Head - Prof. V.V. Yefremov) of the Institute of Nutrition of the Academy of Medical Sciences USSR and the Institute of Surgery imeni A.V. Vishnevskiy of the Academy of Medical Sciences USSR, Moscow, Voprosy Pitaniya, No 3, May-June 1957, pp 10-15.

Studies of the metabolism of vitamin B₂ in patients with trophic ulcers and with extensive burns are reported by the authors. Fourteen patients with trophic ulcers and 10 with second and third degree burns were examined.

The authors' findings are as follows:

1. The excretion of vitamin B₂ with the urine is low in patients with trophic ulcers, whether on an ordinary diet or with the addition of high doses of this vitamin to the regimen. This seems to explain the deficiency of vitamin B₂ in the organism of such patients.
2. Patients with extensive second and third degree burns, both before and after vitamin B₂ was administered, sometimes excreted more than 100% of the dose given.

ARSHINOV, M.S., kandidat meditsinskikh nauk

Burns; from materials of the eleventh session of the general
meeting of the Academy of Medical Sciences of the U.S.S.R.
Vest. AMN SSSR 12 no.4:31-39 '57.

(MIRA 10:10)

(BURNS AND SCALDS)

MASLENIKOVA, Ye.M.; ARSHINOVA, N.N.; GYEDOVA, L.O. (Moskva)

Studying vitamin B₂ (riboflavin) metabolism in nonhealing wounds
[with summary in English]. Vop. pit. 16 no.3:10-15 My-Ju '57.

(MLHA 10:10)

1. Iz laboratorii izucheniya vitaminov (zav. - prof. V.V.Yefremov)
Instituta pitaniya AMN SSSR i Instituta khirurgii imeni A.V.Vishnev-
skogo AMN SSSR, Moskva.

(VITAMIN B₂ metabolism,
in burns & ulcers (Rus))

(BURNS, metabolism,
vitamin B₂ (Rus))

(ULCER, metabolism,
same)

KOMENDANTOVA, A.D., doctor med. rank; ~~AKHILLOVA, M.D.,~~ ~~Med. med. rank~~

Ninth scientific session of the Vishnevskii Surgical Institute of the
Academy of Medical Sciences of the S.S.S.R. Vest. AMN SSSR 13 no.

2:75-82 '58.

(MIRA 11:?)

(SURGERY)

ARSHINOVA, M.N., kand.med.nauk; BURAKOVSKIY, V.I., kand.med.nauk

Dry heart surgery; material from the 11th session of the Vishnevskii
Institute of Surgery of the Soviet Academy of Medical Sciences.
Vest.AMN SSSR 15 no.2:84-89 '60. (MIRA 14:6)
(HEART—SURGERY)

ARSHINOVA, T.I.

"The Use of Silt Precipitation to Increase the Effectiveness of
Soil Fertility in the Northern Part of the Volga-Akhtubinsk Flood Plains";

dissertation for the degree of Candidate of Agricultural Sciences
(awarded by the Timiryazev Agricultural Academy, 1962)

(Izvestiya Timiryazevskoy Sel'skokhozyaystvennoy Akademii, Moscow, No. 2,
1963, pp 232-236)

SOV/112-59-1-1415

14(5)

Translation from: Referativnyy zhurnal. Elektrotehnika, 1959, Nr 1, p 194 (USSR)

AUTHOR: Arshinskiy, V. M.

TITLE: Automatic Control for Magnetic Separation of Highly-Magnetic Ores

PERIODICAL: Izv. vyssh. uchebn. zavedeniy. Gornyy zh., 1958, Nr 1, pp 159-168

ABSTRACT: Requirements are formulated for selecting a principal scheme for automatic control of magnetic separation of highly-magnetic ores. Based on the concept of the coefficient of dynamic resistance to the beneficiating process, analytical expressions for enrichment curves with any method of enrichment have been obtained. It is pointed out that the actual enrichment processes correspond to hyperbolic processes. By analyzing the latter, causes have been found of deviation of the actual process from the prescribed. A control principle is suggested which is based on maintaining a specified constant content of the useful mineral in the end product. If a group of separators whose end products are combined is controlled, an additional control is

Card 1/2

SOV/112-59-1-1415

Automatic Control for Magnetic Separation of Highly-Magnetic Ores

suggested to ensure equal mineral content in the separation layers, at all times, for all separators. A brief description is provided of the automatic control system for an individual separator and for a group of separators. In the first scheme, the computer receives electrical signals from an inductance meter inside whose turns the product is moving, and also from a densitometer. The value of actual magnetic fraction content, as determined by the computer, is fed to a comparison device to be compared with the set value. The deviation value is applied to a saturable reactor whose working current flows in the separator field winding. In the second scheme, the magnetic-field strength of the separator is corrected according to the relative content of the magnetic mineral in the ore stream.

B.A.K.

Card 2/2

ARSHINSKIY, V.M., inzh.

Calculating meter diagrams for the phonometric regulation of
crushing machine performance. Isv. vyz. ucheb. zav.; ger. shur.
no.8:122-131 '58.
(MIRA 12:5)

1. Sverdlovskiy gornyy institut.
(Crushing machinery) (Automatic control)

ARSHINSKIY, V.M., inzh.

Automatic control of magnetic mineral content in products of
highly magnetic ore separation. Izv.vys.ucheb.zav.; gor.zhur.
no.10:108-113 '58. (MIRA 12:8)

1. Sverdlovskiy gornyy institut.
(Magnetic separation of ores) (Automatic control)

ARSHINSKIY, V.M., inzh.; BANNIKOV, D.P., inzh.

Use of standard equipment in systems of automatic control of
the comminution process. Izv.vys.ucheb.zav.; gor.shuz, no.11:
119-123 '58. (MIRA 12:8)

1. Sverdlovskiy gornyy institut.
(Ore dressing) (Automatic control)

ARSHINSKIY, V. M., Cand Tech Sci (diss) -- "Automatic regulation of the process of magnetic separation of strongly magnetic ores". Sverdlovsk, 1959. 22 pp
(Min Higher and Inter Spec Educ USSR, Sverdlovsk Mining Inst im V. V. Vakhrameev),
150 copies (KL, No 11, 1960, 132)

ARSHINSKIY, V.M., inzh.

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